

OHIO AGRICULTURAL EXPERIMENT STATION
Vegetable Crops Substation, Marietta, Ohio

Department of Horticulture Mimeograph No. 172
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SWEET CORN VARIETY TRIALS - 1958
Marietta, Ohio

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LIBRARY

In 1958 twenty-four varieties of sweet corn were evaluated in single row plots replicated five times. Each plot consisted of 21 hills spaced 18 inches in the row with 36 inches between rows. Four kernels per hill were planted May 13, 1958. Stand counts were made at the 2-3 leaf stage to determine germination and later the seedlings were thinned to two plants per hill permitting a maximum stand of 19,360 plants per acre. Fertilizer, 300 lbs./acre of 12-3-12 drilled and disked prior to planting. One side dressing of 100 lbs./acre of ammonium nitrate was applied when they were in 3-4 leaf stage and another at time of last cultivation. Plants were not sprayed for control of flea beetle, corn borer, or corn earworm.

Only marketable size ears were included in the yield records, however, some ears included were damaged by earworm, but it was assumed that insects could have been controlled had suitable pesticide treatments been used.

The symbols and rating system used are as follows:

Average Depth of Kernel: Average length of 3 kernels from center section of 3 ears selected at random from each plot.
Color of Kernel: LY = light yellow, MY = medium yellow, DY = dark yellow; B = bright, I = intermediate, D = dull.
Ease of Snapping: 1 - very difficult to 5 - easily snapped.
Shanks: 1 - long, over 6 inches to 5 - short 1 inch or less.
Flag Number: 1 - none to 5 - over eight.
Flag Length: 1 - less than 2 inches to 5 - over eight inches.
Tip Cover: 1 - exposed to 5 - long, extending 3 inches or more.
Silk Color: 1 - dark brown to 5 - long, extending 3 inches or more.
Husk Color: 1 - light green and dull to 5 - dark glossy green.
Husk Tightness: 1 - loose to 5 - tight.
General Uniformity: 1 - poor to 5 - excellent.

SOURCE OF SEED

Code	
A ₂	Associated Seed Growers, New Haven, Conn.
F ₁	Ferry-Morse Seed Co., P.O. Box 778, Detroit 31, Mich.
H ₁	Joseph Harris Co., Inc., Moreton Farms, Rochester 11, N.Y.
H ₂	Holmes Seed Co., Canton 2, Ohio
M ₁	Michael-Leonard Co., 333-355 W. 35th St., Chicago 16, Ill.
R ₁	Robson Quality Seeds, Inc., Hall, N.Y.
R ₂	Rogers Brothers Seed Co., P.O. Box 30, Idaho Falls, Idaho
W ₁	F. H. Woodruff & Sons (now incorporated with Associated Seed Growers)

GENERAL COMMENTS

After planting soil remained wet and cold with plants in only the 3-4 leaf stage on June 19. Germination and emergence was slow and variable with some plants just emerging when others were in 3-4 leaf stage. Generally stands on the various replications were variable but final stand count about average. Varieties 10 and 16 were low in vigor and gave a poor stand, accounting for the lower than average yields.

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Row Number	VARIETY and LOT Number		Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percentage of Ears Having given number of Rows of Kernels								Average Depth of Kernel	Color Kernel	Ear Smut	Ear Worm	Ease of Snapping(1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color (1-5)	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity(1-5)
					Dozens of Ears	Weight(Tons)				8	10	12	14	16	18	20	22													
				Doz.	Tons	Lbs.	In.	In.	%	%	%	%	%	%	%	mm		%	%											
1	North Star	1795F	H ₁	73	1,122	3.7	.55	6.6	1.6	10	30	60	-	-	-	-	8.3	MYI	0.7	51.4	3	4	3	4	4	4	3	2	2	
2	Gold Crest	26911	F ₁	74	1,145	3.3	.47	6.9	1.5	-	15	80	5	-	-	-	8.0	MYB	0.0	51.7	4	3	3	3	4	4	4	2	2	
6	Marcross	49238F	W ₁	76	1,214	4.3	.59	7.4	1.7	15	25	60	-	-	-	-	8.0	MYB	0.6	77.2	3	3	3	5	3	5	4	4	3	
3	Golden Beauty	1791T	H ₁	76	1,275	4.2	.54	7.1	1.6	5	10	70	15	-	-	-	9.0	MYB	0.0	67.5	3	4	3	3	3	5	3	4	4	
4	Seneca Beauty	1156	R ₁	76	1,137	4.1	.60	7.0	1.6	5	5	55	35	-	-	-	8.3	MYB	1.4	60.8	2	4	3	3	3	5	4	4	4	
7	Golden Earlipak	St. 68208	R ₂	76	1,268	4.6	.61	8.0	1.6	10	55	35	-	-	-	-	8.3	LYB	0.6	80.0	3	3	3	5	3	5	4	3	4	
5	Hybrid 101	86054	F ₁	77	914	3.0	.54	7.6	1.6	10	10	80	-	-	-	-	8.7	LYB	2.5	75.6	2	4	3	3	3	3	4	4	3	
17	Morning Sun	309	H ₂	78	1,260	4.0	.53	7.2	1.7	-	10	80	10	-	-	-	10.0	LYB	0.6	68.3	2	4	3	5	3	2	4	3	4	
12	Golden Hybrid G-101	ST 68211	R ₂	78	1,245	4.2	.57	7.4	1.6	-	15	65	20	-	-	-	9.0	MYI	0.6	45.7	3	4	3	2	4	5	3	3	4	
9	Carmelcross	1790F	H ₁	78	1,429	5.5	.64	7.7	1.7	-	-	-	55	45	-	-	8.3	LYB	0.5	64.0	3	4	3	4	4	3	4	4	4	
8	Sugar King	308	H ₂	79	1,214	4.0	.54	7.9	1.7	-	-	5	45	45	5	-	7.0	LYB	1.3	45.6	1	4	3	4	3	2	3	3	5	
11	Garden Gold	23475	F ₁	79	1,260	4.4	.53	7.6	1.7	-	-	85	10	5	-	-	8.7	MYB	1.2	59.1	2	4	2	3	4	3	4	4	3	
10	Golden Emblem	23459	F ₁	79	1,314	4.1	.51	7.9	1.7	-	-	65	30	5	-	-	9.0	MYB	0.0	46.8	2	4	2	2	4	3	4	3	3	
14	Asgrow Golden 22	53490	A ₂	81	1,437	6.1	.70	7.6	1.8	-	5	50	25	15	5	-	9.0	LYB	0.0	43.3	3	4	3	3	4	5	4	3	5	
13	Treasure Gold	23451	F ₁	81	1,421	5.9	.69	7.5	1.8	-	-	40	45	10	5	-	10.3	MYB	0.0	43.8	3	4	3	3	5	3	4	3	2	
18	Evertender C	326617	M.	81	1,606	6.4	.67	8.0	1.7	-	-	-	55	30	5	10	8.7	LYB	2.9	27.3	2	3	3	3	3	5	4	4	4	
LSD @ 5% Level					159	.7																								

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[illegible]